EXECUTIVE SUMMARY

This technical memorandum supplements the findings of the "Final Treasure Island Naval Station Historical Radiological Assessment (HRA), Former Naval Station Treasure Island (NAVSTA TI), San Francisco, California," (Weston 2006). The intent of the HRA was to provide a comprehensive history of radiological operations by the Department of the Navy (Navy) and their contractors at NAVSTA TI at the time of its publication in February of 2006. This HRA Supplemental Technical Memorandum (HRASTM) documents the findings of additional investigation relative to radiological operations and disposal at the Treasure Island (TI) portion of former NAVSTA TI since the original HRA was completed. This additional investigation included additional research of historical records and review of reports documenting intrusive investigations after the publication of the HRA. Yerba Buena Island, part of NAVSTA TI, is not included in the scope of this technical memorandum.

As a result of additional intrusive investigation following the development of the HRA it was confirmed that some areas, including a disposal area and location of former incineration activities, contained radiologically contaminated material. Therefore, additional research was warranted to further understand the sources and disposal process for the radiological material, and the Conceptual Site Models (CSMs) presented in the original HRA had to be updated and refined to address the finding of radiological material. The updated CSMs, historical research, and a review of activities that occurred at TI since the original HRA was published are presented in this HRASTM. Research for this HRASTM included review of all past TI projects having a radiological component, aerial photographs, geological reports, field activity logs, base-wide soil sample and scanning locations for radiological materials, and various efforts supporting establishment of TI-specific background values for radium-226.

To do a complete review of radiological activities at TI, naval operational history was also reviewed. TI was divided into eight Areas of Interest (AOI) to facilitate review of areas of TI with aerial photos from different years in detail and side-by-side. Changes in land use were assessed to determine the potential for activities that may have resulted in radioactive contamination and migration pathways. This review was done in coordination with the Navy's Radiological Affairs Support Office (RASO) and included a review of documents at the Navy's RASO office in Yorktown, Virginia; files consisting of building plans and other drawings and documents in the Caretaker Site Office (CSO) at Building 1; and documents from the former TI Museum related to the Golden Gate International Exposition (GGIE), currently in Building 449 on TI.

As a result of the research done and discussed elsewhere in this HRASTM, these new radiologically impacted areas were identified:

- Building 3 was identified as impacted based on ship repair activities and the presence of a former optical shop in the building during World War II (WWII). Building 3 was previously identified in the HRA as non-impacted.

- Site 6, Building 570, and a surrounding laydown area were identified as impacted based on remedial activities done in association with the Site 12 Solid Waste Disposal Areas (SWDA). This area was not addressed in the HRA.

- A probable WWII era salvage yard was identified as impacted based on the potential for scrap metal recycling activities adjacent to former Building 327 during WWII.

- Both former sites of the training ship mock-up, known as the USS *Pandemonium*, were identified as impacted based on a reevaluation of existing data after the HRA.

- A salvage yard known as Lot 69 was identified as impacted based on the handling of salvage materials in that area.

- A former storage area that includes Sites 30 and 31 was identified as impacted based on investigatory results obtained after the HRA.

- Building 342 was identified as impacted based on investigatory results obtained after the HRA.